



MEMORANDUM

DATE: November 5, 2008

TO: Division File

FROM: Lance Range 
Bruce Everetts 

SUBJECT: 2002 Expanded Site Inspection of Chemetco

SITE NUMBER: 1198010003 – Madison County
Hartford/Chemetco

EPA Region 5 Records Ctr.



347291

During the course of the course of preparing the Hazard Ranking System Scoring Package for Chemetco, it was discovered that the Figure 4 (from the 2002 Expanded Site Inspection) which depicts Residential Soil, Groundwater and Sediment Locations was incorrect. It was also discovered that the sample descriptions were not included in the 2002 ESI. The Log Book used during the 2002 ESI cannot be located. Due to the inaccuracies and missing data, it was necessary to locate data that depicts the soil and sediment sample locations and to find members of the original 2002 Illinois EPA Sampling Team.

2002 ESI Sample Locations

The sample locations from the 2002 Expanded Site Inspection were collected using the Trimble Pro XR Global Positioning System (GPS) files. A desktop Geographic Information System (GIS) was used to aid in location and dimensional analysis of the Chemetco site. Specifically, GIS was used to pinpoint the locations of collected samples.

GPS data from soil and sediment sampling locations were overlain on aerial photographs and georeferenced topographical maps using the computer program ArcGIS produced by ESRI. Sources used for the aerial photographs and georeferenced topographical maps are as follows, respectively:

1. United States Geological Survey. Digital Orthophoto quarter Quadrangle, Madison County, southwest quarter of Wood River quadrangle. In: Illinois Natural Resources Geospatial Data Clearinghouse at.
<http://www.isgs.uiuc.edu/nsdihome/webdocs/doq05/county/madison.html>. 2005
2. United States Geological Survey. Digital Raster Graphic, Madison County, Wood River quadrangle. In: Illinois Natural Resources Geospatial Data Clearinghouse at <http://www.isgs.uiuc.edu/nsdihome/ISGSIndex.html>. 1993

*** The attached map is included with this memorandum.**

Description of Soil and Sediment Samples

Due to the missing information concerning the sample descriptions, it was necessary to locate individuals who participated during the 2002 Expanded Site Inspection investigation. There is only one member remaining of this 2002 ESI sample team, Bruce Everetts, still employed by Illinois EPA. Mr. Everetts utilized site photographs and maps in order to describe the locations and descriptions of each of the following samples from the 2002 Expanded Site Inspection. Mr. Everetts was questioned specifically about the location and physical appearance of samples X501, X502, X505, X506, X508, X509, X513, X514, X515 and X201. The following paragraphs are based upon the best recollection of Mr. Everetts.

X501 and X502 were collected from a fine slag material which was black in color at a depth of 0-6 inches. Sample X502 is a duplicate sample of X501. The sample was collected on April 16, 2002 at 1250. The sample location was on the northeast portion of the northeast slag pile. The photo was taken towards the east with Old Poag Road in the background.

X505 was collected from the zinc oxide pile located on the northern portion of the fenced Chemetco facility. The sample was collected from 0-6 inches from a fine light brown with some gray material. There were large pieces of slag present on the surface which was removed prior to collection. The sample was collected from the northeastern corner of the zinc oxide bunker. The sample was collected on April 16, 2002 at 1320. The picture was taken to the south with the office buildings of Chemetco present in the background.

X506 was collected from the western portion of the zinc oxide pile. The sample was collected from a depth of 0 -6 inches from the surface and consisted of a light brown/gray material. The sample was collected on April 16, 2002 at 1330. The photo of the sample location is to the southwest.

X508 was collected from the southeastern portion of the slag pile. The sample was collected from 0 - 4 inches from a black/brown/rusty fine slag. The sample was collected on April 16, 2002 at 1350. The photo of the sample location was to the south.

X509 was collected from the southern slag pile on the southeast side of the fenced Chemetco facility. X509 consisted of a fine gray slag. The sample was collected from a depth of 0 – 4 inches. The sample was collected on April 16, 2002 at 1355. Photo was taken to the east.

X513 was collected from the truck parking area located to the south of the fenced portion of Chemetco. The truck parking area is constructed of slag material. X513 was collected from a depth of 0 - 2 inches and consisted of a brown to gray silty sand with fine slag. X513 was collected on April 16, 2002 at 1150. Photo was taken to the northeast. Chemetco buildings can be seen in the background.

X514 was collected near the southwestern corner of the truck parking area located to the south of the fenced portion of Chemetco. The truck parking was constructed of slag material. X514 consisted of a cindery gravel mix intermixed with fine metal pieces. This sample was collected from a depth of 0 -2 inches and was collected on April 16, 2002. The photo was taken towards the northeast. The Chemetco facility can be seen in the background.

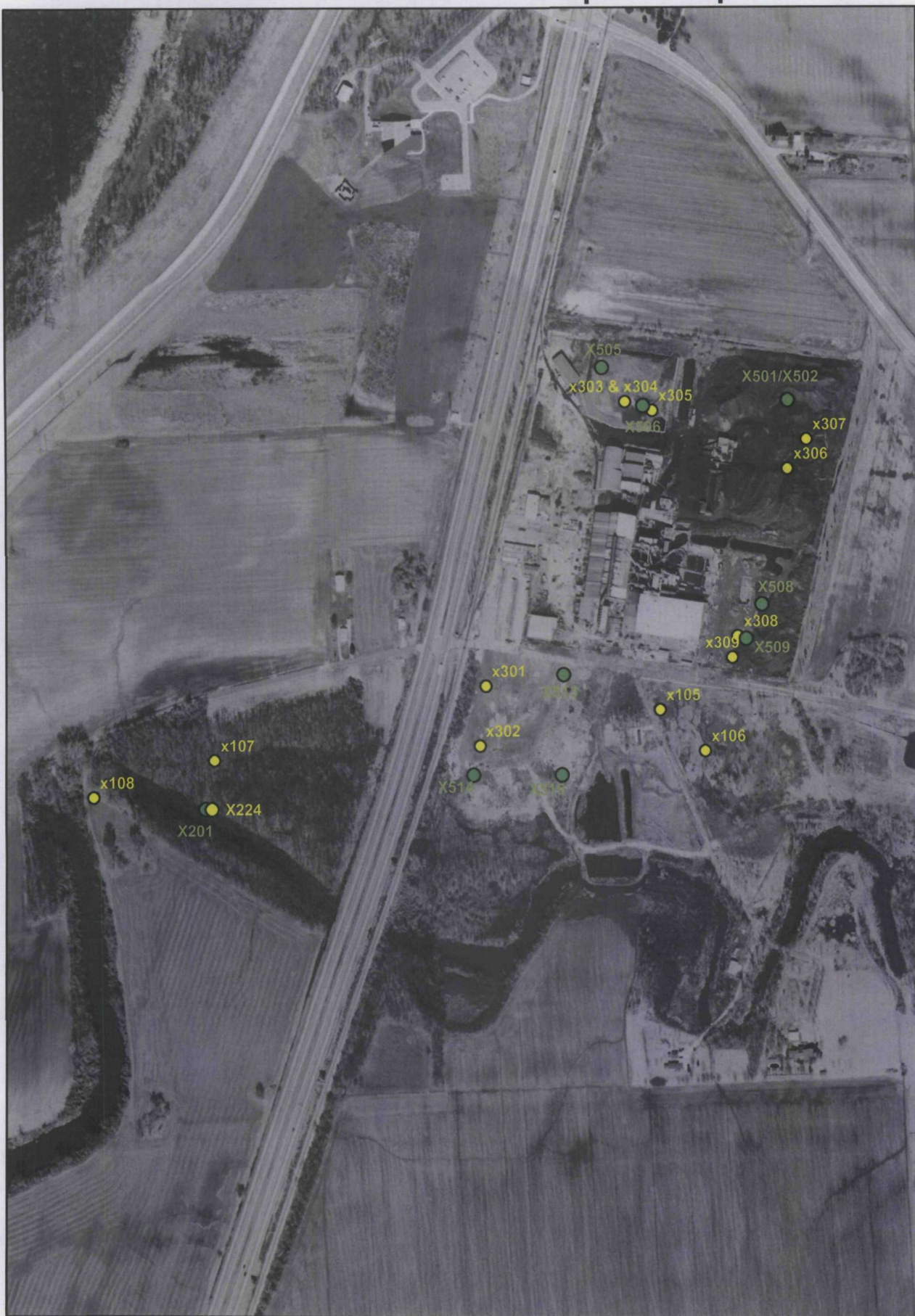
X515 was collected just to the southeast of the truck parking area in the slope leading from the parking area. This area consisted of gravel and slag which was used to construct the truck parking area. X515 was collected from a depth of 0 – 6 inches from a gravel slag mix which was brown/gray in color. This sample was collected on April 16, 2002 at 1340. The photo was taken towards the north. The Chemetco facility is in the background of the photo.

X201 is a sediment sample which was collected from a body of water located to the west of the Chemetco facility and east of Route 3. This area appeared natural and undisturbed from past Chemetco activities. X201 consisted of a silt clay mix which was brown/gray in color. This sample was collected in approximately 6 inches of water and was collected from a depth of 0 - 6 inches. X201 was collected on April 16, 2002 at 1010. Photo was taken to the south.

References

1. ESRI. ESRI Data & Maps 2002, An ESRI White Paper. Electronic Report at <http://support.esri.com/index.cfm?fa=knowledgebase.whitepapers.viewPaper&PID=16&MetalD=1292>. Accessed December 2007.
2. U.S. Fish and Wildlife Service. CONUS wet poly. Geospatial Vector Digital Data. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Washington D.C. FWS OBS-79/31. July 2007. At http://wetlandswms.er.usgs.gov/wmsconnector/com.esri.wms.Esrimap?ServiceName=USFWS_WMS_CONUS_Wetlands&. Accessed August 11, 2008.

Figure 1
2002 and 2008 Sample Map



0 0.05 0.1 0.2 0.3 0.4 Miles

● 2002 Sample Points

● 2008 Sample Points